

### Abstract

1        A surface acoustic wave device includes a transducer electrode formed on a  
2        substrate. In one aspect, the electrode has a plurality of layers. At least one of the  
3        layers is metal and another of the layers is a material for providing a hardening effect  
4        to the metal layer by reinforcement with  $\text{Al}_2\text{O}_3$  precipitates. In another aspect, the  
5        electrode is electrically connected to a metal component that permits electrical  
6        connection of the surface acoustic wave device to an electrical device external to the  
7        surface acoustic wave device. The electrode has a metal portion of a first  
8        metallization. The component is of a second, different metallization. In other aspects,  
9        the surface acoustic wave device is made via a method to have such structural aspects.